Rec'd PCT/PTO 16 MAR 2005

THE ATTENT COOPERATION TREATMENT

PCT

WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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	0009	_	iirs iiie leieieiice	FOR FURTHER AC	TION		n of Transmittal of International amination Report (Form PCT/IPEA/416)
International application No. International filing date (d) PCT/IB 03/04070 18.09.2003				International filing date (d	ay/mon	th/year)	Priority date (day/month/year) 19.09.2002
Interr	nationa	Pate	nt Classification (IPC) or bo	l oth national classification an	d IPC	· · · · · · · · · · · · · · · · · · ·	
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Appli		NUZ 1	Petrus				
DES	SELI	INIX, I	retrus 🔑				
1.	This Auth	interr ority a	national preliminary exam and is transmitted to the	nination report has been applicant according to A	prepa	red by this Inte 36.	ernational Preliminary Examining
				1 m			
2.	This	REP	ORT consists of a total	of 5 sheets, including thi	s cove	r sheet.	
	⋈	This	report is also accompa	nied by ANNEXES, i.e. s	heets	of the description	on, claims and/or drawings which have
		beer	n amended and are the	basis for this report and/ n 607 of the Administrativ	or she	ets containing r	rectifications made before this Authority
	Thes	•	nexes consist of a total				,
			b	<i>7</i>			
		-				· · · · · · · · · · · · · · · · · · ·	
3.	This	repo	rt contains indications re	elating to the following ite	ms:		
	i	×	Basis of the opinion				
	li		Priority				
	111		Non-establishment of	opinion with regard to no	ovelty,	inventive step a	and industrial applicability
	IV		Lack of unity of invent				
	٧	☒		under Rule 66.2(a)(ii) wit ions supporting such sta			nventive step or industrial applicability;
	Vi		Certain documents ci	ted			
	VII		Certain defects in the	international application			
	VIII		Certain observations	on the international appli	cation		
Date	of sub	missi	on of the demand		Date	of completion of t	his report
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12.0	12.04.2004					2.2004	
		exam	g address of the internatio lining authority:		Autho	rized Officer	on William Principles
_	European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas					/, C	i all'
	Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016			1 651 epo ni			
	Fax: +31 70 340 - 3016				Telephone No. +31 70 340-4409		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 03/04070

 Basis of 	the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages	
	1-49		as originally filed
	Clai	ms, Numbers	
	1-74	L	as originally filed
	Dra	wings, Sheets	
	1/20	-20/20	as originally filed
2.	With lang	n regard to the langua Juage in which the into	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of publ	ication of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.5	anslation furnished for the purposes of international preliminary examination (under 3).
3.			eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	rnational application in written form.
		filed together with the	e international application in computer readable form.
		furnished subsequer	ntly to this Authority in written form.
		furnished subsequer	ntly to this Authority in computer readable form.
		The statement that to in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.
4.	The	amendments have r	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 03/04070

5. 🗆	This report has been established as if (some of) the amendments had not been made, sinc been considered to go beyond the disclosure as filed (Rule 70.2(c)).	e they	nave
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(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

Y Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement

Novelty (N)

Yes: Claims

No:

1-74

Inventive step (IS)

Yes: Claims

No: Claims

Claims

1-74

Industrial applicability (IA)

Yes: Claims

1-74

No: Claims

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY International application No. PCT/IB 03/04070 EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: EP-A-1 226 795 (PAVLOVIC JENNIFER L) 31 July 2002 (2002-07-31)

D2: US5836962 (GIANOTTI MARC) 17 November 1998 (1998-11-17)

The document D2 was not cited in the international search report. A copy of the document is appended hereto.

2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-74 does not involve an inventive step in the sense of Article 33(3) PCT.

The document **D1** is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document) (see paragraphs 44 to 71): a medical device (10) configured to be disposed within a body lumen, said device comprising reinforcement fibers (14).

The subject-matter of claim 1 therefore differs from this known medical device in that the medical device comprises a membrane, the reinforcement fibers being coupled to the membrane.

The problem to be solved by the present invention may therefore be regarded as improving the strength and flexibility of the medical device.

The solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons. Embedding fibers into a membrane is described in document D2 (see column 6, line 46 to column 7, line 46) as providing the same advantages as in the present application. The skilled person would therefore regard it as a normal option to include this feature in the medical device described in document D1 in order to solve the problem posed.

- 3. The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claims 48, 53, 55, 61, which therefore are also considered not inventive.
- 4. Dependent claims 2-47, 49-52, 54, 56-60, 62-74 do not contain any features which,

INTERNATIONAL PRELIMINARY International application No. PCT/IB 03/04070 EXAMINATION REPORT - SEPARATE SHEET

in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, see documents D1 and D2.

Remarks:

5. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

PCT/PTO 16 MAR 2005
Internal population No
PCT/ 3/04070

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61F2/01

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

time, tronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

mentory .	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 226 795 A (PAVLOVIC JENNIFER L) 31 July 2002 (2002-07-31)	1-60
A	paragraph '0044! - paragraph '0071!	61-74
X	US 6 171 338 B1 (TOERMAELAE PERTTI ET AL) 9 January 2001 (2001-01-09) column 3, line 51 -column 12, line 49	1,2, 61-74
X	US 5 024 671 A (MATHEWSON WILFRED F ET AL) 18 June 1991 (1991-06-18)	1
Α	column 3, line 59 -column 7, line 33	2–74
X	US 6 001 100 A (TOERMAELAE PERTTI ET AL) 14 December 1999 (1999-12-14)	1,61-74
Α	column 4, line 24 -column 5, line 7	2-60
	-/	

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of cited documents: A document defining the general state of the art which is not considered to be of particular relevance E earlier document but published on or after the international filling date L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clation or other special reason (as specified) O document referring to an oral disclosure, use, exhibition or other means P document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 14 January 2004	Date of mailing of the International search report 21/01/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Mary, C



1	Internation	pplication No	
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	<u> </u>	PC1/1 33/040/0
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	US 2003/023265 A1 (FORBER SIMON JOHN) 30 January 2003 (2003-01-30) paragraph '0041! - paragraph '0115!	1-13, 15-58
A	WO 01 30267 A (ATRITECH INC) 3 May 2001 (2001-05-03) the whole document	1–74
Α	WO 99 44510 A (BIOGUIDE CONSULTING INC; SISSKIND STEVEN J (US); VU DAC (US)) 10 September 1999 (1999-09-10) page 7, line 12 -page 11, line 3	1-74
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INTERNATIO SEARCH REPORT

PCT/ 3/04070

			FC1/ 1 33/040/0		
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1226795	Α	31-07-2002	US CA EP JP	2002128680 A1 2369887 A1 1226795 A2 2002355247 A	12-09-2002 25-07-2002 31-07-2002 10-12-2002
US 6171338	В1	09-01-2001	FI US US AU AU CA DE DE UO JP	885164 A 5792400 A 2003014127 A1 136796 T 636311 B2 4503289 A 2010274 A1 68926305 D1 68926305 T2 0442911 A1 9004982 A1 2931004 B2 4502715 T	11-05-1990 11-08-1998 16-01-2003 15-05-1996 29-04-1993 28-05-1990 16-08-1991 23-05-1996 05-12-1996 28-08-1991 17-05-1990 09-08-1999 21-05-1992
US 5024671	A	18-06-1991	NONE	·	
US 6001100	A	14-12-1999	AU CN WO EP EP JP	9343398 A 1276712 T 9908625 A1 1332730 A2 1003445 A1 2001514926 T	08-03-1999 13-12-2000 25-02-1999 06-08-2003 31-05-2000 18-09-2001
US 2003023265	A1	30-01-2003	FR FR EP	2827152 A1 2831422 A1 1277448 A1	17-01-2003 02-05-2003 22-01-2003
WO 0130267	A	03-05-2001	US AU AU CA CCN CCN CPP JPP WO WO US US	6551303 B1 6652555 B1 1232701 A 2119501 A 2299001 A 2386894 A1 2388600 A1 2388603 A1 1384726 T 1399530 T 1399531 T 1227770 A1 1223890 A1 1225843 A1 2003529410 T 2003512128 T 2003512128 T 2003512129 T 0130266 A1 0130267 A1 0130268 A1 2003120337 A1 2003191526 A1 6652556 B1	22-04-2003 25-11-2003 08-05-2001 08-05-2001 03-05-2001 03-05-2001 03-05-2001 11-12-2002 26-02-2003 26-02-2003 07-08-2002 24-07-2002 31-07-2002 07-10-2003 02-04-2003 02-04-2003 03-05-2001 03-05-2001 03-05-2001 26-06-2003 09-10-2003 25-11-2003
WO 9944510	Α	10-09-1999	AU EP	2994499 A 1061856 A1	20-09-1999 27-12-2000



PCT/1203/04070

Patent document cited in search report		Publication	Patent family		Publication
		date	member(s)		date
WO 9944510	Α		WO	9944510 A1	10-09-1999